

ABSTRACT

A process for purifying trioxane comprising;
the step of supplying an organic solution containing
trioxane, $\text{CH}_3\text{O}(\text{CH}_2\text{O})_n\text{CH}_3$, wherein n is 2 to 5, and at
5 least one impurity of low boiling point, selected from
the group consisting of methyl formate, methylal,
formaldehyde and methanol to a distillation column and
carrying out distillation and separation to obtain a
purified trioxane distillate and a trioxane distillate
10 containing $\text{CH}_3\text{O}(\text{CH}_2\text{O})_n\text{CH}_3$, wherein n is 2 to 5, the step
of contacting a part or the whole portion of said
trioxane distillate containing $\text{CH}_3\text{O}(\text{CH}_2\text{O})_n\text{CH}_3$, wherein n
is 2 to 5, with a solid acid catalyst in the presence
of water, the step of then mixing said distillate with
15 a nonaqueous organic solvent and then washing the
resulting mixture with water to obtain a trioxane-
containing organic extract, and the step of returning
said trioxane-containing organic extract to said
distillation column.

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